

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

1-3. (Canceled)

4. (Previously Presented) The cervical intervertebral prosthesis system according to claim 8, wherein at least one prosthesis has a slide surface radius above 18 mm and at least one prosthesis has a slide surface radius below 18 mm.

5. (Previously Presented) The cervical intervertebral prosthesis system according to claim 4 or 8, wherein at least one prosthesis has a slide surface radius below 15 mm.

6. (Canceled)

7. (Currently Amended) A method for implanting a prosthesis by determining which cervical intervertebral prosthesis of a cervical intervertebral prosthesis system comprising a plurality of intervertebral prostheses of different hinge radii is suitable for replacing a cervical intervertebral disk, comprising:

providing a cervical intervertebral prosthesis system comprising at least two different prostheses, each of which has a hinge with a predefined center of hinge movement, wherein the different prostheses have different positions of the center of hinge movement,

determining the hinge radius of an affected joint, [[and]]

selecting a prosthesis with a hinge radius approximating the hinge radius of the affected joint, and

implanting the selected prosthesis into the affected joint.

8. (Previously Presented) A cervical intervertebral prosthesis system comprising at least first and second different prostheses for replacement of at least two intervertebral disks, each of which has a hinge with a predefined center of hinge movement and comprises a pair of slide surfaces configured to form the hinge,

wherein the different prostheses have different positions of the center of hinge movement and have slide surfaces with different radii of curvature, and

wherein the first one of the different prostheses of the system which is selected to replace a first intervertebral disk lying in a cranial direction relative to a second intervertebral disk has slide surfaces with a greater radius of curvature than the radius of curvature of the slide surfaces of the second one of the different prostheses of the system which is selected to replace the second intervertebral disk.

9-10. (Canceled)

11. (Previously Presented) The cervical intervertebral prosthesis system according to claim 8, wherein the first one of the different prostheses of the system has a smaller extent in an anterior-posterior direction than the extent in an anterior-posterior direction of the second one of the different prostheses of the system.

12. (Previously Presented) The method according to claim 7, wherein at least one prosthesis has a slide surface radius above 18 mm and at least one prosthesis has a slide surface radius below 18 mm.

13. (Previously Presented) The method according to claim 12, wherein at least one prosthesis has a slide surface radius below 15 mm.

14. (Previously Presented) The method according to claim 7, wherein a first one of the different prostheses of the system has a smaller extent in an anterior-posterior direction and slide surfaces with a greater radius of curvature than the extent in an anterior-posterior direction and radius of curvature of the slide surfaces of a second one of the different prostheses of the system.

15. (Currently Amended) A method for implanting a prosthesis by determining which cervical intervertebral prostheses of a cervical intervertebral prosthesis system comprising at least first and second different prostheses for replacement of at least first and second intervertebral disks, each of which has a hinge with a predefined center of hinge movement and comprises a pair of slide surfaces configured to form the hinge, and wherein the different prostheses have different positions of the center of hinge movement and have slide surfaces with different radii of curvature, is suitable for replacing at least two cervical intervertebral disks, the

method comprising:

providing the cervical intervertebral prosthesis system,

determining the hinge radii of at least two affected joints,

selecting the first one of the different prostheses of the system to replace the first

intervertebral disk, [[and]]

selecting the second one of the different prostheses to replace the second intervertebral disk, the first intervertebral disk lying in a cranial direction relative to the second intervertebral disk, and

implanting the selected prosthesis into the affected joints,

so that the first one of the different prostheses has slide surfaces with a greater radius of curvature than the radius of curvature of the slide surfaces of the second one of the different prostheses of the system which is selected to replace the second intervertebral disk.